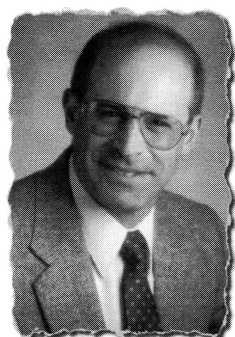


## Letters and Goodbyes from Our Authors



**Warren Williams** –  
[Dr. Warren Williams, the President of NAUG, is Associate Editor of the **AppleWorks Forum**.]

I sit here, writing my last words for the **AppleWorks Forum**, and reflecting back to June of 1986. Cathy Merritt, NAUG's co-founder, and I were busy getting the organization started. Then I visited my parents at their summer home in upstate New York.

I spent my mornings on their porch with a portable Apple IIc writing my first article for the **AppleWorks Forum**. It was beautiful out there. Clear blue skies and a cool breeze in the shade of the trees.

By the end of the second day of writing, my mother was concerned. Soon, the question: "I'm worried, Warren. If you tell the people everything you know in your first article, how will you have anything left for next month's issue?"

My mother understands a lot about many things ... but not about the AppleWorks community. Cathy and I

knew that if we wrote enough to get the ball rolling, that you would pick it up and run with it.

And run you did! Your articles poured in, filled with creative tips and applications. You overwhelmed us with your inventive talents and selfless eagerness to share what you developed and learned.

Soon we had so many articles that we had to pick and choose what we published. That was painful ... to see so many good ideas go unseen. But you were understanding and kept sending us your work.

And now, a decade later, it is time to say goodbye. Not because you're out of ideas ... your manuscripts continue to flow into our office. But because too many of us have moved on to other platforms.

I will not forget you. The warm letters you wrote. The e-mail messages with questions and suggestions. The volunteers who were so gracious and giving of their time and talents.

There are too many people to thank here ... I know that if I start I will forget some of you who should not be missed. But after all these years, I must thank the NAUG staff by name: Pam Fair, Sherry Kuhr, Nancy Perry, Nanette Luoma, Sandy Crenshaw,

Bob Kleimann, Nancy Hytinen, and Jelena Harrington, who answered your calls, copied your disks, delivered your orders, and performed the hundreds of other jobs necessary to keep NAUG running.

Finally, I think we all owe a standing ovation to Cathy Merritt, who worked tirelessly 10, 12, and 14 hour days to make sure that NAUG met the high standards she set for us. Thank you, thank you, Cathy. You made NAUG possible and carried us through these past ten years.

This has been a wonderful decade ... and I can't tell you how much I will miss all of you ... and NAUG.

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Apple ships first Macintosh.

Apple Computer ships AppleWorks 1.1.

1st Class Peripherals ships 10 meg hard drive (\$700).

Wozniak reveals plans for 16-bit Apple II.

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

1984

Joe Gleason launches Quality Computers.

AppleWorks is the best selling program.

Apple Computer ships AppleWorks 1.2.



**Cathleen Merritt** – [*Cathleen Merritt is the Director of NAUG and Editor of the **AppleWorks Forum**.*]

Over the past decade, I've written and edited hundreds of articles for the **AppleWorks Forum**. After all these professional contacts, I'd like to share some personal reflections.

Certainly, I had no thoughts of **NAUG** during the summer of 1983 as I planned my return to graduate school. I had taught for six years in New York and Michigan before "retiring" to raise my three children. With the youngest then three years old and the others in school, it was time to prepare to return to teaching. But so many things had changed, and my first Master's Degree was 11 years old. It was time to catch up with the changes.

Everyone was talking about microcomputers in 1983. There were Apples and Pets and TRS-80s, and probably a bunch I'd never heard of. So an introductory computer course was my way to get started.

That's where I met Dr. Warren Williams. What an interesting course he taught! We simulated electrons going through a computer. We ripped apart floppy disks. And we logged onto CompuServe, sending e-mail to fellow educators around the country. I was hooked!

The next year, Apple Computer released AppleWorks, and the university changed its curriculum to use AppleWorks with its Apple IIs. We did it all with AppleWorks. Wrote reports and course outlines. Created data bases and spreadsheets. And with enhancements like Jeeves and Pinpoint Spell Checker, what more could we want in a program?!

By early 1986, Warren was talking about AppleWorks at educational conferences around the country. A suggestion from the attendees at one of those conferences inspired an idea; a national users group for AppleWorks.

The idea blossomed. First thing I knew, Warren asked me to run what we were already calling "NAUG". We seemed to have everything organized: Monday I would take care of finances, business matters, and memberships. Tuesday and Wednesday I would edit the as-yet-unnamed newsletter. Thursday I would work on the public domain library. And Friday I would answer the mail. It was all so simple.

With the daily routine settled, I went about setting up the bank accounts, buying **NAUG's** first Apple II, and finding a company to print the newsletter. Then we drafted a press release and Warren went off to the National Educational Computer Conference in San Diego to announce **NAUG's** existence.

Blessed with seven members, sticking name and address labels on the first issue of the **AppleWorks Forum** was hardly a challenge. But by August, my planned routine became impossible as we started **NAUG's** public domain library, worked with a local school district to launch **NAUG's** BBS, and planned a national seminar program. It was time for help, so I started asking my friends to work part-time on **NAUG** projects.

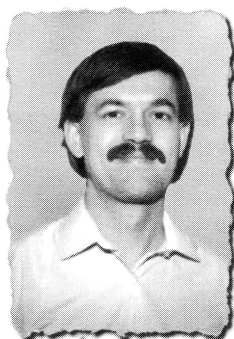
The rest is history. The decade of working together. The wonderful chats with our members. The travel to conferences and seminars.

By mid-1991, the eventual demise of **NAUG** was obvious. Membership was declining slowly and Apple had stopped showing the Apple II...even at education-oriented trade shows. We raised our dues slightly while we had lots of members and stuffed the difference aside. That reserve let us keep running these past two years in face of mounting deficits.

And now it's over. To my friends, supporters, and colleagues, I say "goodbye". I will miss you, your encouragement, and all that we shared over these years. I wish you the best with your Apple II's. I want you to know that I will go on using my IIGs for years.

This has been wonderful...but we must move on. ■





**Randy Brandt** – [*Randy Brandt, the lead developer of AppleWorks 3.0, 4.x, and 5.x, created Ultra-Macros, owns JEM Software, was the editor of TimeOut Central, and created more than two dozen enhancements to AppleWorks.*]

AppleWorks has played a major role in my life for a decade.

Ironically, I decided against AppleWorks more than once before becoming a convert. My first exposure to the program was in 1984 when the school where I was teaching wanted a word processor for their Apple IIe's. The budget was tight, so I lobbied against the \$150 per computer cost of AppleWorks and instead suggested a \$49 word processor whose name I've long since forgotten. When I sold my Kaypro and bought a IIc in early 1985, I compared AppleWorks and AppleWriter, and settled on AppleWriter because it had a programming language. (Who knew AppleWorks would have one some day?)

Bert Kersey hired me to write manuals for Beagle Bros in March of 1985, but I had to use AppleWorks. So I sold my AppleWriter, and as they say, the rest is history. Bert and I collaborated on a ProDOS utility called "Big U", which included a patch to change the sound of the AppleWorks error bell. My new career was launched, although I didn't know it yet.

I used Merlin Pro for 6502 assembly programming, and it had a feature called "keyboard macros" that let you press the solid-apple and another key to type some text into the editor. The concept fascinated me, and after a few hundred hours of research, MacroWorks was born and I had my first full-fledged AppleWorks enhancement, my first royalty check, and a new software development career.

I suppose the biggest AppleWorks date for me was September of 1987, when TimeOut creator Alan Bird,

Mark Simonsen, Rob Renstrom and I attended the San Francisco Applefest and introduced the TimeOut series. The response was so incredible that I worked the show floor non-stop from morning until night, going 24 hours without a thing to eat, running on pure adrenaline. It was a childhood fantasy come true to be signing autographs, realizing that people were so excited about something I'd created that they actually wanted to meet me. I still chuckle whenever I think back to that show.

I've enjoyed hearing from **NAUG** members over the years, getting to know many of you by mail, by phone, online, at computer shows, and at user group meetings. My first-ever visits to San Francisco, Houston, Boston and New York were all due to AppleWorks shows or contract work.

I'll miss getting my *AppleWorks Forum* in the mail, but at least I know AppleWorks 5 will stay alive for years to come thanks to Deja J]. I'm sure many of you will stay in touch, and that friendships will continue to grow.

I want to thank everyone at **NAUG**, especially Dr. Warren Williams and Cathleen Merritt, for their friendship and support over the many years we've known each other and worked together.

But none of this would have been possible without the loyal **NAUG** members who have kept AppleWorks alive longer than Apple Computer kept the Apple II going. My heartfelt thanks to all of you for helping me avoid getting a real job over the past decade. It has been a kick!

The **National AppleWorks Users Group (NAUG)** is an association dedicated to supporting AppleWorks users. **NAUG** provides technical support and information about AppleWorks and enhancements to that program. Our primary means of communicating with members is through the monthly newsletter entitled the *AppleWorks Forum*.

Central Point introduces Laser 128 for \$395.

Apple Computer ships AppleWorks 1.3 (upgrades \$20).

NAUG announced at NECC in San Diego (\$24/yr).

Applied Engineering ships RamFactor.

Beagle Bros ships MacroWorks.

Megahaus ships ReportWorks.

NAUG membership: 7.

1986

January

February

March

April

May

June

VisiCalc sold. Becomes Lotus 1-2-3 on IBM-PC.

Alan Bird and Mark Simonsen form Software Touch.

Pinpoint ships Desk Accessories.

Software Touch ships AutoWorks.

Pinpoint ships Spelling Checker.



**Cynthia E. Field** – [*Cindy Field, Contributing Editor of the **AppleWorks Forum**, has written, edited, revised, and re-written almost 100 articles for the **AppleWorks Forum** under her name and under her pseudonyms. (All right folks, get out those old issues and start looking!) In the process, Cindy taught thousands of us how to use*

*AppleWorks to create movies, badges, mugs, party decorations, and dozens of other things that you absolutely cannot do with AppleWorks.]*

It's uncanny. Having written tens of thousands of words about AppleWorks, I'm suddenly at a loss. So profound is the debt of gratitude I personally owe to my "family" of Apple computers that it's difficult to find the right words to express my mixed feelings about NAUG's passing. Let me explain:

I feel great sadness that this once-robust organization can no longer sustain the overhead required to serve those who still enjoy the Apple II. At the same time, it's no secret that AppleWorks is better than ever, with features and capabilities that rival the big guns. The problem is, the big guns ... and most computer users ... have gone graphic.

Ironically, NAUG's passing gives us reason to celebrate. Unlike "newbies", we are veteran computer users prepared to embrace and champion the ever new technologies that will carry the world into the twenty-first century. We have been pioneers and we have been stalwarts. Now we must be architects of the future. ■



**Timothy Harrison** – [*Tim Harrison conceptualized, designed, maintained, and was Sysop of NAUG's AppleWorks bulletin board service.]*

It's hard to believe that it is only eight years since I started using a personal computer. Starting with a Wozniak IIGS, which was then the latest and greatest computing machine, I knew I had the cat by the tail.

Like many of you, I had a mentor who had been "into" computers for at least two years and had tons of software he could let me use. Knowing nothing about software piracy, I discovered a software gem named AppleWorks. Figuring out such a complex package without a manual was difficult, but wasn't that what personal computing was all about? (Yes, I bought a legal package...but that was months later.)

Hungering for more, I bought an Applied Engineering Datalink modem. I will never forget the first time that a friend and I communicated by typing to each other. And I suspect it was much the same type of exuberance that Bell felt after making his first call to Mr. Watson. The modem's bundled software package made it easy to expand on that early excitement. But when that first month's \$100 phone bill arrived, I knew something had to change. It didn't!

NAUG's closing reminds me of the feelings I experienced years ago while graduating from college. It is bittersweet to leave comfortable surroundings. But it is also thrilling to look forward to what is ahead. As time passes and we meet again in the online community, we will share new and exciting experiences in much the way we would at a class reunion. Thanks for letting me serve you as we both struggled through "school". And when you see me online, please throw me a smiley or two. ■

First issue of the **AppleWorks Forum** (16 pages / \$24 per year).

**NAUG** launches first AppleWorks BBS.

Roger Coats advertises C-Vue and Prairie Pack for "Portable IIc".

**NAUG** launches its public domain library.

*inCider* publishes "Main Menu" (\$49.97/yr.).

**NAUG** announces national seminar program.

Pinpoint ships Document Checker.

**NAUG** membership: 500.

Beagle ships Super MacroWorks.

## July August September October November December 1986

**NAUG** offers first AppleWorks seminar.

Jim Carlisle founds Teacher's Idea and Information Exchange.

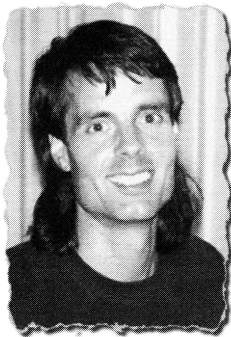
**NAUG** membership: 100.

Apple announces AppleWorks 2.0 (upgrades \$75).

Apple announces Apple IIgs (\$999).

Apple reduces price of LaserWriter to \$4999.

Pinpoint ships KeyPlayer.



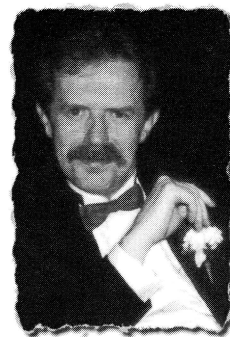
**Dan Verkade** – [Dan Verkade, the co-developer of AppleWorks 4, created more than a dozen significant TimeOut enhancements for AppleWorks. Mr. Verkade also produced NAUG's 1040Works tax package.]

AppleWorks has taken me to many places. It took me to AppleFests in San Francisco and Boston to display TimeOut products. It took me to **NAUG** headquarters in Canton, Michigan to discuss improvements to 1040Works. It took me to JEM Software in Ramona, California to put the finishing touches on the first version of DoubleData. It took me to Quality Computers in St. Clair Shores, Michigan and to Ontario, Canada to plan the AppleWorks 4 marketing effort. And it even took me to Harrisburg, Pennsylvania to defend TimeOut Grammar in a little-known copyright infringement suit at the Harrisburg Courthouse. (Thankfully, we won!)

AppleWorks also took me out of a steady programming job and into my house. It gave me more time with my wife and children than I ever would have had working in a conventional eight-hours-a-day situation. If AppleWorks had not taken me anywhere else, this alone would have been worth the effort.

And AppleWorks has taken me into the hearts and minds of many wonderful people, some of whom I've never seen but are known by their voice on the telephone. I am glad for the opportunity to have met all of you. Thanks to Randy Brandt who took me to AppleWorks. Thanks to all of you who are reading this.

If you're reading this, it's because you support a fantastic product. Thanks again, you've helped take me to many places.



**Joe Connelly** – [Joe Connelly coordinated NAUG's activities on America Online and provided online and telephone support for dozens of members when they ran into problems with AppleWorks.]

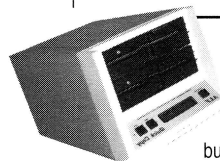
Here's a heart-felt "Thank you" to all the **NAUG** members past and present who called me for help over the years. I tried to answer your questions and help you get back on track.

I got the most satisfaction from callers who had urgency and panic in their voices as their long school paper or student data base was about to be lost. I listened to their problems and tried to offer work-arounds and solutions. My satisfaction came from their relieved voices when the fixes and solutions worked.

That is what I will always remember and carry with me through the years. The friendships developed with users who call from Newfoundland to Hawaii ... and all points in-between.

And I will gladly be available to help in the future. Just call me at (313) 421-8729.

Thank you **NAUG** members...wherever you are!



### For Sale: High Speed 5.25-inch Disk Copiers

NAUG is selling its two high speed, stand-alone, manual load disk copiers (see picture). These dual-drive units are perfect for schools, businesses, and organizations that produce or distribute program or data disks. Both units are in excellent condition.

Unit 1: Formats and copies a 5.25-inch Apple II disk every 15 seconds. Lists for \$1850. Selling for \$500.

Unit 2: Formats and copies a 5.25-inch high density MS-DOS or Windows disk every 35 second. Formats and copies standard density MS-DOS disks in half that time. Lists for \$2250. Selling for \$600. Or buy both systems for \$1000.

We guarantee these units and will pay for any necessary repairs for 90 days unless caused by physical abuse. We have only one of each unit, so please order by telephone and plan to pay with your credit card.

- **NAUG** introduces AppleWorks Printer Codes Wall Chart.
- **NAUG** announces Members Helping Members Program.
- **NAUG** releases first template disk.
- Applied ships 1-meg gsRAM card (\$299).

- **AppleWorks Forum** grows to 20 pages.
- **NAUG** publishes Garth Schultz's SEG.PR printer tricks.

- **NAUG** publishes codes for
- Applied ships memory ca
- JEM ships PatchMania.
- K-12 MicroMedia publish

## January

## February

## March

## April

## May

## June

- Applied ships TransWarp IIe accelerator (\$279).

- **NAUG** membership: 1,000.
- Pete Crosta launches **NAUG** area on CompuServe.

- **NAUG** membership: 2,000.
- **AppleWorks Forum** expands to 24 pages.
- JEM ships first product - PathFinder.
- First **NAUG** Members Helping Members roster - 9 volunteers.



**Bruce Shanker** - *[Bruce Shanker is a Charter Member of NAUG, one of NAUG's original Members Helping Members volunteers, and our first Beagle Buddy. Bruce has written 15 letters, articles, and software reviews published in the AppleWorks Forum.]*

I joined the National AppleWorks Users Group at its inception and

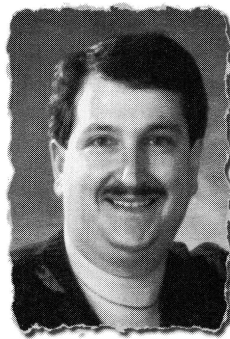
always found the **AppleWorks Forum** to be filled with useful, interesting articles.

Some of my favorite **NAUG** memories include meeting Warren Williams at an AppleWorks seminar. I was pretty adept at AppleWorks at the time but I picked up a ton of new tips for using AppleWorks that I had never thought of. I still use a tax spreadsheet that Warren showed at that meeting, with some modifications, in ClarisWorks.

I remember bringing the Beagle Buddy program to **NAUG's** attention. Little did I know that in a year my living room, dining room, and much of the first floor would be filled with boxes of disks and other paraphernalia for **NAUG** members waiting for their TimeOut updates for AppleWorks 3.0.

As **NAUG's** first Beagle Buddy and one of the original Members Helping Members volunteers, I came to know hundreds of my fellow **NAUG** members worldwide. I have fond memories of answering letters and sending disks to every continent except Antarctica. One package even needed special instructions on delivery into Africa (via the Zambesi River).

It was a time of great joy and happiness for me, and I still miss those days. But the spirit of **NAUG** lives on in the ClarisWorks Users Group ... and I hope to see many of my **NAUG** colleagues join me in C•WUG. You'll get the same support and encouragement you always enjoyed with **NAUG** and AppleWorks. ■



**Pete Crosta** - *[Pete Crosta, one of NAUG's original Members Helping Members volunteers, coordinates NAUG's activities on CompuServe.]*

I vividly remember a science teacher in the high school I worked at in the early 80's showing me how to print an alphabetized list of students with just a few

keystrokes. I remember the green monitor and the ImageWriter printer and wondering if I could ever master such a complex task. But with a bootleg copy of AppleWorks and scores of hours before and after school, I slowly taught myself what a computer did and what AppleWorks was about.

I learned about **NAUG** when I bought my first legal copy of AppleWorks. **NAUG** was a dream come true! Imagine a group that was dedicated to the one thing I was yearning for on a daily basis.

Years passed and I became very active in **NAUG**. For a long time, I was the only Members Helping Members volunteer for all of New Jersey. AppleWorks and **NAUG** added joy my life. The people, the projects, and the assignments. Everything got me closer to AppleWorks and to the "real" people who needed guidance with all sorts of tasks.

Soon I became **NAUG's** CompuServe representative and have since logged thousands of hours in the GO APP-USER Forum. I remember fielding scores of questions a week and uploading dozens upon dozens of files from the **NAUG** Public Domain Library. Even today, while traffic is barely present, I'm still there to help on CompuServe.

Having been a "die-hard" for so long, there is a part of me deep inside that glows warmly at the mention of AppleWorks, Apple II's, and **NAUG**. When I learned that **NAUG** was closing, I can honestly admit that a part of me just stopped glowing and died. ■



or 65 printers.  
rd for IIC (1 meg. - \$399).  
as SchoolWorks.

NAUG starts second year.  
Beagle announces first TimeOut add-ons.

NAUG membership: 4,000.  
NAUG publishes AppleWorks Beyond the Basics audiotapes.  
More than 150 NAUG Members Helping Members volunteers!  
Apple advertises Macintosh as computer for the home office.

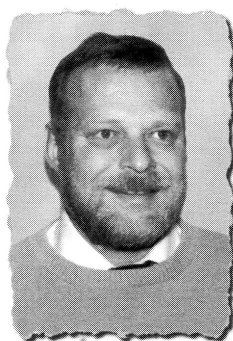
NAUG membership: 5,000.  
NAUG Publishes Electronic Index to the **AppleWorks Forum**.  
AppleWorks outsells Claris' Mac software 4 to 1.

## July August September October November December 1987

NAUG membership: 3,000.  
Mark Simonsen buys Beagle Bros.  
Software Touch closes.  
NAUG publishes Members Helping Members roster - 50 volunteers!

Applied announces PC Transporter.  
Dave Cheseborough starts "The Works" newsletter.  
Beagle ships TimeOut UltraMacros, DeskTools, SuperFonts, QuickSpell, and FileMaster.  
Zip accepts orders for Zip Chip - NAUG warns about vaporware.

NAUG publishes first Public Domain Library Catalog (40 pages).  
NAUG BBS receives 5,000th call.  
Apple Computer forms Claris Corporation.  
Claris Corporation takes over AppleWorks.  
Beagle ships TimeOut Graph and SideSpread.



**Stan Hecker** - [Stan Hecker, who developed the *AppleWorks Footnote System* and created more than three dozen publishable *AppleWorks* templates, has written more than 50 articles for the *AppleWorks Forum*.]

My first computer, an Apple IIC, holds the same place in my heart as my first baseball glove, my first car, my first typewriter, and my first home.

I came to the Apple community too late to be a pioneer or leader. But I clearly remember unpacking my IIC almost a decade ago, and admiring its design.

My first non-game software was AppleWorks. I admit to using a pirated version at first, one of the 1.x versions. But by the time AppleWorks 2.0 was released, I had to buy my own, legal copy.

Remember AppleWorks 2.0? A working copy fit on one 5.25-inch disk. One side was start-up, the other side was "program" - all three modules! No spell checker, no macros, no financial functions, and no data base glossaries or functions. But it had built-in mail merge! Wonderful days with AppleWorks, those were! Using it today, AppleWorks 2.0 seems like a teenager - both attractive and awkward.

And I'm still using it. My "portable" 128K IIC, with a Prairie Power Pack, has served me from coast to coast, in offices and campgrounds. The combination of AppleWorks and the IIC is flexible, adaptable, intuitive and fast.

Do you remember the halcyon days of AppleWorks? The external spell-checkers? "Jeeves - your personal assistant"? (What did Jeeves do that we needed so much? I've forgotten!)

The end of my AppleWorks apprenticeship is well documented. A friend asked me to develop footnoting

macros for AppleWorks. Much to my surprise, NAUG liked the package and asked me to write a short piece about the macros. It was my first article in the *AppleWorks Forum*, which appeared in August 1988.

Shortly thereafter AppleWorks 3.0 arrived, with its financial functions. Trading idle messages on the NAUG BBS, I suggested that somebody ought to explain those functions to the membership.

Warren Williams liked the idea and I found myself writing a six-part series on the financial functions. It was my favorite series, and I suppose it showed; your comments were most gratifying. Even suggestions for improving the templates showed that my fellow members read the series carefully.

Writing for NAUG became part of my life. Researching each "My Favorite Template" piece brought me other work. After a while I could edit or write the pieces in my sleep, and I'm sure that some members suspected I did it that way.

These were wonderful years. And between submitting serious articles, I drafted humorous pieces that Warren and Cathy wouldn't find so funny. It meant twice the work (I still needed to meet the serious deadline), but it was fun.

Of course, the demise of NAUG saddens me. You, the NAUG community, have given me much-needed support over the years. Your questions, your comments, your enthusiasm, your respect, and your caring often revived me after a discouraging day at the office. If I didn't answer your questions as well as I might have, forgive me; perhaps I was drawing strength from you, and letting you restore some of the gumption I had lost during the day.

But I know that there are adventures and experiences ahead for all of us. We will be stronger and wiser for our efforts.

Thank you, everyone, for everything!

NAUG publishes AppleWorks Handbook: Vol. 1.

ProDOS clocks don't like "1988" - upgrade to ProDOS 1.4.

NAUG recommends 1-meg RAM and hard drive for AW/TimeOut.

NAUG membership: 6,000.

More than 100 disks in NAUG's Public Domain Library.

Beagle announces Beagle Buddy program.

Lissner and Brandt speak at NAUG's seminar at AppleFest.

NAUG members test Project Samuel (AppleLink - PE, then America Online).

NAUG members get discounts on TimeOut products.

NAUG describes how to print in foreign languages.

Beagle ships Thesaurus, DeskTools II, PowerPac MacroTools.

Bits and Pieces demonstrates RocketChip.



1988

January

February

March

April

May

June

- RAM costs jump to \$320/meg.  
- Second NAUG warning about Zip Chip vaporware.  
- 20 meg hard drives cost \$550.  
- JEM ships TaskMaster.

- **AppleWorks Forum** grows to 28 pages (still \$24/yr).  
- Claris "Road Show" shows only Macintosh software.  
- Claris announces AppleWorks/Network (\$1616).  
- NAUG gets first Zip Chip (\$179).  
- Applied ships RamKeeper.

- NAUG membership: 7,000  
- NAUG publishes "100 Ways to Use AppleWorks"  
- NAUG BBS receives 10,000 hits  
- First NAUG price increase  
- Apple lowers Macintosh prices  
- Apple launches AppleLink  
- 1-meg memory boards up



**Bill Davis** - [Bill Davis, one of NAUG's original Members Helping Members volunteers, is the long-time coordinator of NAUG's activities on GENIE.]

My one remaining Apple II is in the corner of my classroom, which is now populated by students who use our PC's and Macs. AppleWorks is not even a memory for

them because they haven't heard of it. But I have so many memories. And with a room full of some powerful hardware, many of my records are still over in the corner in AppleWorks.

Funny, I kind of like not sharing that Apple II with anyone. Yesterday a student asked me, "Why are you using that old computer?" My mind slipped back over ten years to a room full of AppleWorked Apple II's. I was helping a student set up a data base for her Chemistry Lab report. After she typed in some entries, I showed her how she could use Open Apple-A to sort the list. She was amazed, and blurted out, "Wow! How did it do that?" I won't ever forget that moment.

Sure, we have much more amazing "multimedia," "turbo" everything, but I remember where we started. ■



**Keith Johnson** - [This issue of the **AppleWorks Forum** contains Keith Johnson's 56th article published by NAUG. Our heart-felt thanks to Keith for his selfless contributions to NAUG and to the AppleWorks community.]

All good things come to an end. But the best things leave good things behind.

The National AppleWorks Users Group embodied a wonderful spirit that was part of AppleWorks itself; a spirit of community sharing. Users contributed new ways to use AppleWorks and suggested new features to the authors. And macros opened a floodgate of marvelous techniques.

AppleWorks thrived because it is so well-designed, but also because people became involved in the community of users. NAUG served as a collection house for useful and interesting information; readers felt like they belonged to a family. I greeted the appearance of every issue of the **AppleWorks Forum** with great anticipation, because I knew someone was going to show me something new about my favorite software. And occasionally I was able to contribute something useful.

The family has diminished, as members have gone on to other platforms. But before we disband, I suggest that each of us look for other communities with the sharing spirit. They may be involved with computers, or they may not. You might see your fellow enthusiasts face-to-face, or you may communicate only at long distance. But there are families out there that can benefit from your involvement ... and they'll help you grow as well.

Even after the last copy of AppleWorks has been deleted from its hard disk - say, when Comet Halley returns in 2061 - the spirit of AppleWorks and NAUG will still be alive out there somewhere. Go find it! ■

## Season's Greetings

— From the editors and staff  
at the National AppleWorks  
Users Group



Apple COO: "We're (not) abandoning the Apple III".

NAUG announces plans for the future of AppleWorks.

Biggest AppleFest ever (San Francisco).

NAUG publishes 60 ways to improve AppleWorks.

NAUG publishes first of Munz's UltraMacros Primer articles.

Beagle ships SpreadTools and Paint.

Zip Chips shipping in quantity.

Claris ships AppleWorks 2.1 (free upgrade).

Apple announces IIc-Plus (\$675).

Apple ships first GS/OS (v4.0).

Chinook announces 40 meg drive for Apple IIc (\$979).

Chinook ships IIc memory card (1-meg = \$299).

S. A. Auteur ships EuroWorks.

NAUG describes how to transfer AW data to/from Macs.

Free AppleLink-PE software for NAUG members.

Sculley declares "An exciting future for the Apple III".

Claris releases AppleWorks GS 1.0.

Sage Publications discontinues "AppleWorks Journal".

inCider discontinues "Main Menu".

July

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ys to Improve AppleWorks".

00th call.

- to \$27.

ices.

-PE (\$35/yr + \$6/hr).

to \$500.

NAUG starts third year. Membership: 8,000.

Lissner describes beginning of AppleWorks in **AppleWorks Forum**.

NAUG describes how to get special printing effects with AppleWorks.

NAUG distributes Stan Hecker's AppleWorks Footnote System.

Apple raises prices of most Apple II products.

Apple COO demoted.

NAUG membership: 9,000.

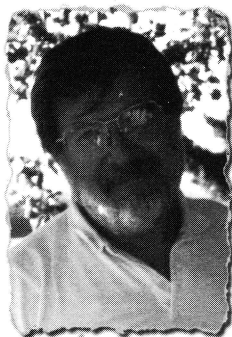
NAUG describes how to transfer AW data to/from laptops.

JEM ships Munz's Late Nite Patches.

SoftSpoken ships CrossWorks.

NAUG membership: 10,000.

30 meg hard drive: \$750.



**Roy F. Barrows** – [Roy Barrows, who created more than two dozen disks filled with macro-based utilities and other enhancements to AppleWorks, published eight articles in the **AppleWorks Forum**.]

My relationship with NAUG began and now ends with Warren Williams. AppleWorks users are a diverse lot, spread out over the

globe. But it was Warren's warm, sincere voice in our many phone conversations that connected me to the AppleWorks community. To my initial embarrassment, it was Warren who named my public domain disks "Barrows' Utilities", and it was the tangible bond he forged that led me over the past few years to continue to share my efforts with the members of NAUG.

We talk of computer hardware – new machines with ultra-fast clock speeds, but it is the steady rhythm of the human heart that motivates us. And it is the good-hearted nature of the AppleWorks community that I will miss.



**Ruth K. Witkin** – [Ruth Witkin wrote *AppleWorks in Action*, the longest running column ever to appear in *inCider* and then *A+ Magazine*. Mrs. Witkin likes to hear from old friends. You can reach her at [RuthieBaby@aol.com](mailto:RuthieBaby@aol.com).]

Little did I realize when Debbie de Peyster called me on a cold November day that I was embarking on a dizzying road of deadlines and decisions.

It was 1985, and Debbie was Editor in Chief of *inCider*. My book, *Managing with AppleWorks*, was just published, and Debbie wanted to know if I'd write an AppleWorks column. I was knee deep in other stuff, but I told Debbie I'd do it – but only three columns, no more.

My first column appeared in the March 1986 issue. It described how to create a mailing list data base and print mailing labels.

Seeing that column in print was a thrill, and then the letters started pouring in. I can't tell you how incredible they were. People of the Apple II community reaching out to tell me how much they had learned, enjoyed, and looked forward to more columns. I answered each and every one of them. So I was hooked. I called Debbie and said, "Okay, let's do it!"

*AppleWorks in Action* appeared every month until January 1993, a total of 83 articles. It was a hectic, crazy time facing those monthly deadlines, but it was wonderful. The people at *inCider* were wonderful, the letters from readers were wonderful, the invitations to address Apple user groups were wonderful, even the phone calls at dinnertime were wonderful.

A few weeks ago I sold my IIGs to a man who came from Connecticut to pick it up. He said it was time for him to graduate from his IIc. As he drove away, I bid a sad farewell to an era. A very special, wonderful era. ■

**AppleWorks Forum**

Editor: Cathleen Merritt

Associate Editor: Warren Williams

Contributing Editor: Cynthia Field

Page Layout: Nanette Luoma

Publisher: The National AppleWorks Users Group

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- NAUG publishes AppleWorks Handbook: Vol. 2.
- NAUG warns about bugs in AppleWorks GS 1.0.
- NAUG members get free time on CompuServe.
- Open-Apple becomes A2-Central.
- Applied ships first TransWarp GS (\$399).
- Bits and Pieces ships RocketChip (\$189).

- NAUG membership: 11,000.
- Quality releases Gary Morrison's RepairWorks.
- NAUG publishes first article in Morrison's Hard Disk Primer series.
- Claris restricts technical support to registered users.
- NAUG lowers international rates.

- NAUG publishes first article on "Branching Spreadsheets".
- NAUG review recommends CrossWorks.
- NAUG upgrades BBS with networked Apple IIs.
- NAUG BBS receives 20,000th call.
- Claris announces AppleWorks site licenses.
- Applied ships Vulcan hard drive (20 meg = \$65
- ActaSoft ships AlphaCheck.

## January

## February

## March

## April

## May

## June

- NAUG issues second warning about bugs in AppleWorks GS.
- NAUG describes how to print envelopes with AppleWorks.
- Special NAUG discounts on TransWarp and Zip Chip.
- NAUG reviews four tax packages for AppleWorks.
- NAUG members get free file recovery in test of RepairWorks.
- Pinpoint closes.

- AppleWorks Forum grows to 32 pages - still \$27.
- inCider buys A+ magazine.
- NAUG warns about incompatibilities with RocketChip.
- NAUG holds first national "meeting" on AppleLink-PE.
- Joe Connelly launches NAUG area on AppleLink-PE.

- NAUG membership: 12,000.
- Beagle ships TimeOut Re...
- Beagle takes over StyleW...
- Ohio Kache ships Multi-K...
- Zip ships 8mhz Zip Chip...



**Mark Munz** – [Mark Munz developed popular enhancements to AppleWorks, wrote the *UltraMacros Primer*, and published 28 articles in the *AppleWorks Forum*.]

AppleWorks and UltraMacros played an important role in my career and in my friendships.

UltraMacros introduced me to

Randy Brandt, with whom I collaborated on several Apple II projects, including Late Nite Patches, MacroTools II, MacroEase, AW3.0 Companion, TimeOut TextTools, and finally the new Deja ][. (For those interested in trivia, Randy published my Late Nite Patches without ever meeting me; we met about a year later.)

My interest in UltraMacros brought me to my local user group, the NorthWest Apple Pickers (NWAP) where I met wonderful people and found that I enjoyed sharing my knowledge with others. With the encouragement of fellow NWAP members, I wrote two articles about UltraMacros. Cathy Merritt spotted these articles and asked me to write a five-part series on UltraMacros for the *AppleWorks Forum*. Those five articles turned into a 15-part series and eventually *The UltraMacros Primer*.

During all this, I started working for Beagle Bros where I met many of the people I had admired over the years. I was proud to be in such company. At Beagle I worked on the Apple II and, eventually, the Macintosh. Slowly, I began doing more Macintosh programming until I believed my Apple II days were behind me. (Little did I know that three years later, I would be finishing Deja ][, a product that lets you run AppleWorks and TimeOut on a Macintosh.)

It's sad to see the end of NAUG. It played a big part in helping me develop both my software programming and writing skills. I always enjoyed reading the *AppleWorks Forum* from cover to cover. And I learned a lot from interacting with my NAUG colleagues.

## About the Timeline

We hope you enjoy the timeline we prepared for this issue of the *AppleWorks Forum*. Most of the events included in the timeline relate to the life of AppleWorks. The remaining items provide an historical perspective to the AppleWorks-related events.

Although we did our best to be accurate, many of the dates are estimates, particularly dates for events that occurred before NAUG started in mid-1986.

We thank the members and developers who sent us information to guide our efforts. For those who did not send us information, we apologize for any inaccuracies or omissions. We did our best to remember your products and the date you introduced them to the AppleWorks community.

Please send us your corrections so we can prepare a corrected timeline for our archives. Mail or fax to "AppleWorks Timeline", NAUG, Box 87453, Canton, Michigan 48187; Fax: (313) 454-1965.

I want to thank all the people at NAUG, especially Cathy Merritt for seeing beyond my early writings. I also want to thank Dr. Warren Williams for his support and encouragement while writing *The UltraMacros Primer* and for helping me discover my ability to write. And thanks to all the NAUG members who were interested in my articles and products. When I finished writing Deja ][, Randy and I knew we were writing it for many of the NAUG members who still wanted the power of AppleWorks on their Macs.

It's been a great seven years, and I wouldn't trade it for anything. I learned much in these years with the help of wonderful people who also happen to love AppleWorks. AppleWorks and UltraMacros can still accomplish more automated data manipulation than any Macintosh or PC integrated program.

I don't recall who said it, but as the saying goes, "This is not the beginning of the end, this is the end of the beginning." Goodbye, good luck, and I can't wait to see the next generation of PowerMacs running AppleWorks! ■



Claris releases AppleWorks 3.0 (special **NAUG** upgrade: \$79).

**NAUG** publishes special AW 3.0 issue of the **AppleWorks Forum**.

Claris ships free AppleWorks GS update (v1.0v2).

John Link ships first commercial version of SuperPatch.

Apple ships IIgs with 1-meg of RAM (\$1,149).

Apple ships GS/OS 5.0.

**NAUG** membership: 13,000.

**NAUG** upgrades BBS to multi-user system.

**NAUG** area most active forum on AppleLink-PE.

JEM ships Mr. Invoice and I.O. Silver.

**NAUG** publishes Mark Munz's *UltraMacros Primer*.

Claris releases AppleWorks GS 1.1 (upgrades: \$29).

John Link releases SuperPatch 6.1.

Applied reduces PC Transporter price to \$499.

JEM ships DoubleData.

Dan Crutcher releases CheckWorks.

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00.  
portWriter and GS Font Editor.  
are products.  
ache Card.

JEM ships FlexiCal and SpellCopy.

**NAUG** starts its fourth year.

More than 200 disks in the **NAUG** library.

**AppleWorks Forum** grows to 36 pages - still \$27.

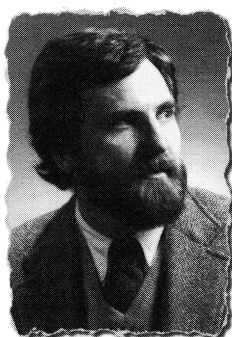
**NAUG** starts series that describes how to use a LaserWriter with AW.

**NAUG** warns about problems with Zip Chips - again.

First SuperFonts project article in the **AppleWorks Forum**.

**NAUG** begins "How to Get Started in the Data Base" series.

Beagle ships TimeOut 3.0.



**Gary Morrison** – *[Gary Morrison wrote seven articles for the **AppleWorks Forum**, developed RepairWorks, and authored two books about Apple II computers.]*

I remember with exquisite detail the purchase of my first Apple IIe. My wife was seven months pregnant with our second child when I announced with all the authority a

father-to-be could muster, that I was buying a computer. I think the shock stunned my wife and four-year old daughter so much that they did not have a chance to protest. It was a cool machine with BASIC, PFS Write, and QuickFile. No AppleWorks, though.

About a year later, AppleWorks was making my new professorial career easier. I cherished my lecture notes and handouts, my data base of journal articles, and my grade-book spreadsheets – I was never much good at math.

Sometime in my third or fourth year, my Chairman brought me a damaged file he created with another word processor. It was an important file and he did not have a backup of his 5.25-inch floppy disk. Using a disk utility, I discovered that the data was saved in a text file and that one sector in the middle was bad. By copying around the bad sector, I was able to reconstruct his file except for the missing paragraph or so.

Amazed at my wizardry, I decided to pursue this newly found skill with some damaged AppleWorks word processing files. So, off to the garage with a stack of disks and hammer. I hammered at random trying to create a damaged AppleWorks file. By chance I created one and figured out how to recover it. **NAUG** then published a call for damaged files, which arrived on a daily basis with pleas for help. Soon, I was able to recover all the word processing files and data base files I could find.

Joe Gleason at Quality Computers liked my program, which I called "RepairWorks", and agreed to publish it.

We unveiled RepairWorks at an AppleFest show in Boston. I was a nervous wreck wondering if my program would stand up to what folks would bring to us to recover. The staff from *inCider* and some of the Beagle Bros folks stood by as I put RepairWorks to the test. We recovered every file that day!

It seems that all of us – users, programmers, AppleWorks, the Apple II, and the operating system matured. But I was saddened the night that I talked to the Apple executive in charge of the Apple II line and finally accepted that Apple IIe line and AppleWorks were "dead".

Although we may be facing the end of an era and a time to say good-bye, I can never launch a word processor, data base, or spreadsheet without recalling that green text on a black screen and wondering who Rupert Lissner was. I wonder if twenty some years from now we will find some lost AppleWorks files...and only you and I will know what to do with them!

---

**Dan Crutcher**– *[Dan Crutcher, who developed popular enhancements to AppleWorks, is a Members Helping Members volunteer and long-standing supporter of **NAUG**.]*

The wonder is not that the **AppleWorks Forum** is ceasing publication, it's that it managed to hang on as long as it did in the face of an ever-dwindling Apple II market and user base. **NAUG** and the **AppleWorks Forum** have been consistently reliable sources of information, especially for those AppleWorks users who did not have access to GENie or the other online sources of Apple II information.

One of the unsung joys of using a computer is the pleasure we derive from learning new ways to use these machines and the even greater pleasure of passing that hard-won knowledge on to others. **NAUG** and the **AppleWorks Forum** provided both sides of that pleasure for AppleWorks users. Congratulations for doing such a good job for so long.

- NAUG describes how to use scanned images with AppleWorks.
- NAUG publishes comprehensive list of UltraMacros tokens.
- NAUG starts Link's series on patching AppleWorks 3.0.
- First issue of **NAUG on Disk**.
- Call-A.P.P.L.E. stops publishing.
- Beagle ships AppleWorks 3.0 Companion, TimeOut TeleComm.
- Apple lowers LaserWriter NTX price to \$5999.

- NAUG launches "How to Get Started with the AW Spreadsheet" series.
- NAUG publishes "Disk Rescuers" directory.
- NAUG publishes comprehensive list of TimeOut version numbers.
- Bill Davis launches **NAUG** area on GEnie.
- Apple releases High Speed SCSI card.

- NAUG increases dues to \$29.
- NAUG adds all TAWUG disks to its PD Library.
- Applied ships 3.5-inch Apple II drives - \$279.

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- NAUG membership: 14,000.
- NAUG BBS receives 30,000th call.
- Beagle ships TextTools and MacroEase.
- Central Point releases Copy II+ 9.0.

- NAUG membership: 15,000.
- NAUG negotiates Zip Chip replacements for dissatisfied members.
- NAUG launches Bill Neef's My Favorite Macro series.
- NAUG recommends AppleWorks GS 1.1.
- NAUG upgrades its multi-line BBS.
- TimeWorks ships Publish-It! 3.
- Vitesse ships Quickie scanner.
- Sculley affirms Apple's commitment to the Apple II.
- C. V. Technologies ships first RamFAST cards.

- NAUG starts Randy Bra
- 20 meg hard drives dow
- Beagle ships PickFonts.
- JEM ships Outliner 3.0.



**John Link** – [John Link developed SuperPatch and wrote extensively for the **AppleWorks Forum**.]

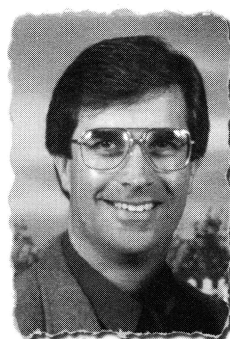
It looks like we made it to the end of the line. A long time ago I speculated about what would be on the other side of the Apple II; speculations that never generated anything specific except intense dislike for

Apple Computer – a feeling, it turns out, that had nothing to do with the Apple II.

Today, as **NAUG** shuts down forever, the other side puzzles me even more. I only know there will never be another computer that has the same place the Apple II had in my life, and likewise, never another organization like **NAUG**. Maybe that is why I still don't understand life without the II.

To all of you who used my software, even those who copied it, I extend my thanks. I appreciated the money, which is long gone, but I treasure the camaraderie even more, which endures. I am satisfied that so many found it so useful.

With the publication of these words, I am placing everything I ever wrote for the Apple II into the public domain. Use it, hack it, or whatever suits your fancy. Those who want to keep in touch can reach me as [john.link@wmich.edu](mailto:john.link@wmich.edu). Or crank up your World Wide Web browser and surf over to [URL=http://IIgraphics.wmich.edu](http://IIgraphics.wmich.edu) and see what I am up to now. I would love to hear from you. ■



**Will Nelken** – [Will Nelken, the owner of Marin MacroWorks, wrote popular books and enhancements for AppleWorks and UltraMacros. Rev. Nelken, who is a long-standing Members Helping Members volunteer, wrote eight articles for the **AppleWorks Forum**.]

Sad news! For the last ten years, the **AppleWorks Forum** was a mainstay of my devotion to AppleWorks. The names of Cathleen Merritt and Warren Williams became synonymous with AppleWorks productivity, and every issue of the **Forum** offered me practical knowledge and clear, useful procedures. Now, all I can look forward to at the first of the month are bills. At least I can still manage them with AppleWorks!

From version 1.0 to 5.1, AppleWorks has been the primary tool of my professional life, for crafting sermons and managing a corporation. Of course, it has also been a lot of fun! Developing macro-driven tools became my sideline – only minimally profitable, but maximally enjoyable.

Sharing with the **Forum** family of AppleWorks users has always been a positive experience – one I will miss. The memories, however, will last a lifetime! God bless you all. And even after publication ceases, I'll always think of myself as a Member Helping Members volunteer for **NAUG**. ■

NAUG publishes Morrison's *Hard Disk Primer*.

Apple re-absorbs Claris.

Applied's Vulcan 20 meg drive now up to \$699.

Applied Ingenuity out of business.

Checkmate Technology out of business.

Beagle takes over Outliner and releases TimeOut SuperForms.

Sculley promises to "continue to nourish" Apple II.

Apple releases \$999 Mac Classic.

First TimeOut Central disk.

John Link ships LockOut.

Seven Hills ships Independence.

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dt's "Inside AppleWorks" series.  
to \$350.

NAUG starts its fifth year!

More than 300 disks in the NAUG library.

NAUG describes how to use HP DeskJets with AppleWorks.

40,000th call to the NAUG BBS.

NAUG starts ReportWriter tutorial.

NAUG membership peaks at 15,900.

NAUG starts Stan Hecker's financial functions series.

NAUG warns against current RamFAST card.

Chinook ships 1-meg Apple IIgs memory card - only \$125.

Vitesse ships Deliverance and Harmonie.



**Howard Katz** – [Howard Katz published nine articles and seven letters in the *AppleWorks Forum*, served as a Members Helping Members volunteer, and represented NAUG at numerous computer shows in his area.]

Most of us have friends who use other computer platforms, and we tolerate their indulgent, conde-

scending attitudes toward our Apple IIs. But their attitude changes when we demonstrate the power of AppleWorks. It is fast, user-friendly, and more powerful than anything else out there. And part of that power for the past ten years was the expertise that NAUG members freely shared with each other.

I was a latecomer to NAUG and to AppleWorks. Even after I moved up to a IIe, I stuck to an older word processor program because I knew it. Then a friend had me try AppleWorks, and I realized what I had been missing.

While I was aware of NAUG, it wasn't until five years ago that I finally got around to joining. It was a revelation; a group of people sharing their experience so everyone could be more productive with the program.

That feeling and sharing continued. I am proud that I was able to help my co-members; through the articles I wrote, the Members-Helping-Members phone calls, and the information I disseminated at local computer shows.

NAUG was something special. We were a community, no matter how far apart we were physically. And part of me will be missing come January, when no issue of the *Forum* will appear in my mailbox.

To my co-users: Hail and farewell. Hang in there. The Apple II and AppleWorks still exists, and is a viable computer platform. NAUG will be missed, of course. It was an integral part of our community. Just remember, not only do you own an Apple II and still use AppleWorks, you were lucky enough to have been a NAUG member! ■



**Phil Shapiro** – [Phil Shapiro, who writes extensively about education and computers, authored seven articles for the *AppleWorks Forum*.]

NAUG took shape in the mid-1980's to meet the informational needs of AppleWorks enthusiasts around the world. NAUG's visionary founders were sure that there would be enough information and tips about AppleWorks to fill a monthly newsletter. Each private discovery about ways to use AppleWorks became a public celebration after it was shared in print with the larger NAUG community.

The very existence of the *AppleWorks Forum* spurred people to find new and different ways to use AppleWorks. Every issue contained some new surprises, and few NAUG members could resist the temptation to curl up with the *AppleWorks Forum* on the very day it reached their mailboxes. Month after month the *AppleWorks Forum* never wavered from its high standards. As someone who wrote for this publication, I can report that hours and hours of work were poured into making each issue the best it could possibly be. The editors were relentless in the standards they set for themselves and their authors.

While the *AppleWorks Forum* was a "user group newsletter" in name, in truth this publication was a scholarly journal. With its meticulous index and feature length articles, the publication covered the world of AppleWorks users in the most thorough way imaginable. If Harvard University had published the *AppleWorks Forum*, it could not have done a better job.

With a tip of my hat, I thank Warren Williams, Cathleen Merritt, Cynthia Field, and Nanette Luoma for carrying us through ten years of the *AppleWorks Forum*. Your leadership, and the amazing creative talent of all the people who wrote for the *Forum* created an enduring legacy. May your future work be infused with the same aura you brought to your work for NAUG. ■

NAUG starts Dan Verkade's "Inside AppleWorks" Spreadsheet" series.

Keith Johnson takes over My Favorite Macro series.

NAUG to publish 1040Works.

WestCode ships InWords.

Apple releases HyperCard II GS.

Marin MacroWorks ships ULTRA-AppleWorks.

NAUG starts Link's series on speeding up TransWarp GS.

NAUG recommends current RamFAST card.

Randy Brandt appointed TimeOut Central editor.

Apple ships Apple IIe Card for Mac LC (\$199).

NAUG membership: 14,000.

NAUG publishes Apple II magazine.

NAUG describes how to run Mac LC.

Apple shows only Macs at



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NAUG membership: 15,000.

Zip ships ZipGS accelerator.

Stan Hecker starts My Favorite Template series.



**Don Aquilino** – [Don Aquilino developed AlphaCheck and other popular products for AppleWorks.]

I bought my first computer, a used Apple IIe, in December 1985. I didn't do much with it except play games. My favorite was Zaxxon.

When I started getting serious, I bought AppleWorks. Being a hunt and peck typist, the word processor

let me re-write and correct my letters before printing them on my wondrous ImageWriter. And the spreadsheet module taught me how to create formulas. I can still remember creating neat little templates and feeling good about my accomplishments.

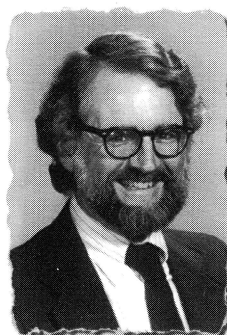
I wanted to get deeper into programming, so I bought Super MacroWorks. Now I could make AppleWorks really do what I wanted. I created a little check writing program in a data base that would actually print checks and balance my checkbook. After working with the program for a year (and calling Randy Brandt every other day), I named it AlphaCheck and sent a copy to NAUG. Warren Williams got someone to review AlphaCheck in the *AppleWorks Forum* and the orders started to pour in!

I talked to Cathy Merritt and Warren many times on the phone, but didn't meet them until I got a booth at AppleFest in San Francisco. Even now I call Warren at least once a month to see how the *AppleWorks Forum* is doing.

As the years went by, I read about the demise of A+, *inCider*, Beagle Bros, and Applied Engineering. There was a tug at my heart as each went into computer history. But there was still NAUG and the *AppleWorks Forum*.

Now that too is passing away. And along with its passing goes my computer youth.

I glance at my Apple IIe sitting on a box filled to the top with *AppleWorks Forum* issues in the corner of my office, all alone, and tears come to my eyes.



**Phineas Fiske** – [Phineas Fiske, the developer of 1040Works, is the Financial Editor of *Newsday* and a Charter Member of NAUG.]

So this is it? Well, I'm sorry it had to end. In my brief career as a software developer, I relied entirely on AppleWorks, Apple's versatile, all-purpose software package.

I knew soon after I first tried AppleWorks that it could prepare personal income tax returns, and so 1040Works was born. (Actually, it was TaxWorks the first year, but another company had a prior claim on the name.) Over the five years that I produced 1040Works (before it got too big for a second business and I turned it over to NAUG), I came to know many AppleWorks users who were my customers. I can't think of a nicer bunch of people. I'd like to wish each one of you a farewell personally, but it looks as though this is the best chance I'll have; a lot of you are also NAUG members; so my best to you all. And my best to Cathy Merritt, Warren Williams, and the crew at NAUG for the fine job they've done.

## TimeOut Central Back Issues

Marin MacroWorks is now distributing back issues of TimeOut Central, a popular 800K Apple II disk magazine filled with tips, techniques, templates, tools, and programs for enhancing AppleWorks. Back issues cost \$3.95 or \$4.95 depending on the number of disks you order. The complete set of 26 disks costs \$85. All prices include postage within the USA. Please contact the company for the contents of each disk and for international postage charges.

[Marin MacroWorks, 1675 Grand Avenue, Suite 1, San Rafael, CA 94901-2211; (415) 459-0845.]



NAUG starts its sixth year!

NAUG reports more problems with Zip Technology.

NAUG publishes first article in Link's SEG.PR/SEG.ER series.

Remarkable Technologies ships SuperWorks - AW for PCs.

NAUG publishes 10 favorite all-time AppleWorks tips.

Marin MacroWorks ships UltraAwesome Macros II.

Diamond ships Trackstar Apple II emulator for PCs.

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NAUG dues increase to \$31.

JEM ships TotalControl.

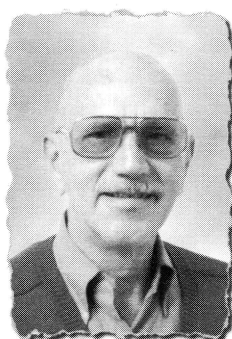
NAUG membership: 13,000.

NAUG recommends Publish-It!4.

AppleWorks Forum sizes down to 32 pages.

Apple releases HyperCard IIgs.

WestCode ships Pointless.

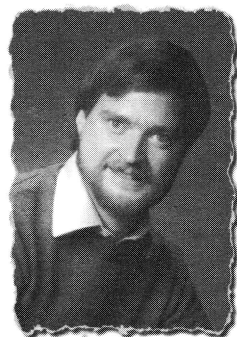


**Bill Neef** – [Bill Neef, a Charter Member of NAUG, created NAUG's My Favorite Macro series and wrote 13 articles for the *AppleWorks Forum*.]

Am I disappointed that NAUG will soon be only history? You bet! But my collection of *AppleWorks Forums*, starting with the October 1986 issue, will serve me well, especially since I religiously updated my *Forum* Electronic Index every month.

I've been satisfied with my IIgs since 1986, and I see no reason to upgrade to one of the more powerful platforms. And while my many Apple II user-friends defected to Mac or MS-DOS, every one of them told me they liked their new equipment ... but sure missed AppleWorks!

I've suffered the loss of *inCider*, then *inCider/A+*, then *Enhance* and *II-Alive*, *TimeOut-Central*, and now NAUG. But my Apple II remains a fantastic machine that I look forward to using daily for years to come! ■



**Douglas Gum** – [Douglas Gum, the owner of Office Productivity Software, wrote eight articles for the *AppleWorks Forum*.]

I was extremely saddened to hear that NAUG is closing its doors. AppleWorks has been a large part of my life for so many years now. And the *Forum* has played such a central role for the whole Apple-

Works community that it is hard to imagine how we will continue without all of you. I wish all the NAUG staff success in your future endeavors at C•WUG. ■



**Chris Serreau** – [Chris Serreau created powerful enhancements to AppleWorks and wrote advanced articles about the program.]

In its premier issue, the *AppleWorks Forum* introduced NAUG as “a forum to help (users) learn more about AppleWorks, share ideas, and get answers to (their) questions about the program.” We were in AppleWorks 1.3 times then, and, eight “official” versions later, I wonder if I could find a single *Forum* reader who believes these goals were not reached.

I learned a lot from the *Forum*. My personal list of milestones includes Rupert Lissner's AppleWorks memories, Randy Brandt's “Inside AppleWorks” series, John Link's articles with AppleWorks patches, Mark Munz and Will Nelken's articles about UltraMacros, and Bruce Shanker's tips for TimeOut users. Not to mention articles by Cynthia Field, Keith Johnson, Howard Katz, Dan Verkade, and NAUG's Cathleen Merritt and Warren Williams. But, strangely enough, my number one paper from NAUG is not an issue of the *Forum*: it's a 44-page paper entitled “AppleWorks 3.0 Entry Points Documentation”, released in late 1989 by Claris Corporation and distributed by NAUG to its members. Most of what I know about AppleWorks' structure comes from this short paper, and from the authors mentioned above.

An old friend is going, and there's not much we can do about that.

What should we expect in AppleWorks' future? There certainly won't be a sixth version of the program. But there is still room for enhancements to AppleWorks. And I'm sure everyone in the AppleWorks community has a list of features he or she would like to see added to the software. Let's hope we can somehow manage to put them together. Maybe we'll see the good old title screen with a “v5.2” label someday. ■

NAUG membership: 12,000.  
65,000th call to the NAUG BBS.  
Dan Crutcher releases Macro City Macros.

NAUG gives qualified recommendation to SuperWorks.  
50 meg hard drive down to \$279.

NAUG membership: 11,000.  
NAUG starts Jim Hirsch's data recovery series.  
Seven Hills ships Express.  
JEM ships DB Pix.  
Beagle Bros sells TimeOut to Quality Computers.

January

February

March

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May

June

NAUG describes how to use AW with visually impaired.  
First of more than two dozen Roy Barrows disks in the NAUG library.  
Applied announces GS-RAM III (1meg = \$199).  
Apple ships GS/OS 6.0.

70,000th call to the NAUG BBS.  
More than 400 disks in the NAUG library.  
Applied charges for all Apple II technical support.  
Zip lowers price of 7mhz ZipGS to \$149.

# My Curtain Call

by Keith Johnson

And now for something completely different. Your humble writer believes that the last issue of the *Forum* presents an opportunity for a little fun. As you'll see, the accompanying macro performs some interesting ASCII graphics demonstrations. You might even adapt it to your presentations, or use it as a unique startup sequence for AppleWorks.

The macros in *Figure 1* require AppleWorks 3.0 or later and Ultra 4.0 or greater. See the section entitled "Other Versions of AppleWorks" if you use an earlier version of AppleWorks or UltraMacros.

## How to Use the Macros

Follow these steps to use these macros:

1. Open a new word processing document, and type the macros in *Figure 1*. Do *not* add them to your default macro set!
2. Adjust the value assigned to variable *m* in the first macro. This governs the speed of some operations. The lower the value, the faster things will happen. For a first try, use the speed of your Apple II in megahertz. For example, enter *m* = 1 for a stock Apple IIe. Try *m* = 2 or 3 on a IIGS. I use *m* = 8 on my 8 megahertz-accelerated IIe, and it works well. *m* = 2 gives about the same results on a Power Macintosh 7100/66 running Deja II.
3. Press <oa-esc>, choose the Ultra Compiler, and compile the set. Do not use Ultra Options to

make this your default set!

4. Press <sa-A> to run the macros.
5. To reload your default macros, press <ba-L>.

## Technical details

Are you really ready for this? Well, if you insist:

\$30 is defined as a horizontal stripe composed of mousetext characters that I used to draw the curtain. I used alternating V and W mousetext to create a smooth stripe, but you can use all V's to make "pleats" in the curtain. The <left> command makes the stripe 78 characters long, the maximum line length in at least some parts of AppleWorks.

The Apple characters drawn in macro <D> are controlled by variables *u*, *w*, and *z*. *w*'s value will be either 192 or 193, since those are the ASCII values of the closed and open Apple characters. *u* is defined as a constant, 192. I make *z* switch between values of 0 and 1 on each pass through the loop, and I defined *w* = *u* + *z*. That alternates the values between 192 and 193. I have *z* toggle between 0 and 1 by using the formula *z* = 1 - *z* on each pass; that's an old BASIC trick.

## Other Versions of AppleWorks

You can convert the macros so they run on earlier versions of AppleWorks and UltraMacros, but the converted macros will be longer and more cumber-

NAUG starts its seventh year! Membership: 10,000.  
 NAUG publishes specifications for 33 AW-compatible printers.  
 Quality stops free Beagle Buddy upgrade program.

NAUG describes modifications that give you a 13.5mhz IIgs.

NAUG membership: 9,000.  
 NAUG price breakthrough on Apple II memory.  
 [IIgs (4 megs) \$130; IIe (1 meg) \$60; IIc (1 meg) \$110].  
 NAUG announces Seniors Helping Seniors program.  
 Zip suspends Zip Chip production.  
 Dan Crutcher releases TCXPress.

## July August September October November December 1992

75,000th caller to the NAUG BBS.  
 Quality ships TimeOut Grammar.

NAUG describes how to print MouseText in your documents.  
 JEM ships OmniPrint.

Applied drops prices dramatically for NAUG members.

### Figure 1: The Final Curtain

```
start

A:<all><                                { Define the beginning macro.                }
clear 200 :                             { Clear the string variables.                }
m = 8 :                                 { Machine-speed; define for your computer.  }
oa-Q : esc :                           { Go to the Main Menu.                      }
goto sa-B>!

B:<all><                                { Define the name strings.                  }
$51 = "Warren Williams!" : $52 = "Cathleen Merritt!" :
$53 = "Randy Brandt!" : $54 = "Mark Munz!" :
$55 = "Roy Barrows!" : $56 = "Stan Hecker!" :
$57 = "Cynthia Field!" : $58 = "Douglas Gum!" :
$59 = "Howard Katz!" : $60 = "Dan Crutcher!" :
$61 = "Bill Neef!" : $62 = "Dan Verkade!" :
$63 = "Will Nelken!" : $64 = "Pete Crosta!" :
$65 = "Keith Johnson!" : $66 = "Bruce Shanker!" :
$67 = "Steve Beville!" : $68 = "John Link!" :
$69 = "Nanette Luoma!" : $70 = "...and many others!" :
a(1) = 10 : b(1) = 4 :                 { Define the name locations.                }
a(2) = 50 : b(2) = 3 :
a(3) = 50 : b(3) = 19 :
a(4) = 10 : b(4) = 20 :
goto sa-C>!

C:<all><                                { Define the "Curtain Raiser" macro.        }
$8 = "NATIONAL" :                     { Define the NAUG strings.                  }
$10 = "APPLEWORKS" :
$12 = "USERS" :
$14 = "GROUP" :
$30 = &VWVWVWVWVW& :                 { Start defining the curtain string.        }
($30 = $30 + $30) 3:                 { Repeat string to create the full curtain. }
$30 = left $30,78 :                   { But limit it to 78 characters.            }
$31 = chr$ 2 :                         { chr$ 2 = Ctrl-B clears the current line.  }
.cls 2 :                              { Clear the working area of the screen.     }
for y = 2 to 21 step 1:               { Create the curtain.                      }
.writestr 0,y,$30 : next y :          { Fill the screen with the curtain.         }
d = 300 * m : wait d :                { Wait for a moment.                      }
d = 60 * m :                          { Define the wait time.                    }
for y = 21 to 2 step -1 :             { Start the curtain raiser loop.            }
.writestr 0,y,$31 :                   { Clear the bottom line.                   }
.writestr 30,y,$(y) :                 { Print the NAUG strings. Most strings are empty. }
wait d :                              { Wait for a split-second.                 }
next y :                              { Repeat the loop.                         }
goto sa-D>!
```

some. Here are some guidelines to help you convert to UltraMacros 3.1:

Replace all <.writestr> commands with <msg> commands. For instance, <.writestr x,y,\$1> becomes <msgxy x,y : msg \$1>.

The <.cls 2> (note the period) becomes <cls> (no period). <clear 200> becomes just <clear>, and clears all the variables.

The <for-next> combination is not available in pre-4.0 versions of UltraMacros; you must set up the loop by hand. For example, in place of the loop

```
<for x = 1 to 10 step 1 :
[other commands] : next x>
```

use

```
<x = 1 : begin : [other commands] :
x = x + 1 : if x < 11 rpt>
```

Finally, you do not have 99 string variables available, so you may have to delete macros <B>, <ba-2>, and the references to them.

### All Good Things...

I want to thank all those members who corresponded with me in the past few years, and especially those who contributed macros for this column. I've enjoyed working with Warren Williams and Cathleen Merritt, and will miss that interaction.

Ruth Witkin's tax templates now in the **AppleWorks Forum**.  
 WestCode ships HardPressed.  
 Sequential ships Switch-It! for IIGs.  
 Seven Hills ships The Manager for IIGs.  
 Marin MacroWorks ships ULTRA-to the Max.

80,000th call to the **NAUG** BBS.  
 Quality publishes first issue of II Alive.  
 Dan Crutcher releases TCX/NAUG.

**AppleWorks Forum** goes on.  
**NAUG** dues decrease to \$10.  
**NAUG** starts AppleWorks Forum.  
 Apple ships GS/OS 6.0.

January

February

March

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June

NAUG membership: 8,000.  
 JEM ships UltraMacros 4.2.

Last issue of "The AppleWorks Educator" (formerly "The Works").

## Figure 1: The Final Curtain – Continued

```

D:<all><                                { Define the "Apple-Symbol Marquis" macro. }
d = m * 4 : c = 1 :                      { Initialize the variables. }
z = 1 : u = 192 :
for n = 0 to 19 :                          { Start the loop. }
  w = u + z :                             { Define the apple symbol variable. }
  $9 = chr$ w :                           { Define the apple symbol, solid or open. }
  ba-1 :                                  { Print one set of symbols around marquis. }
  ba-2 :                                  { Print one name. }
  z = 1 - z :                             { Toggle the apple symbol. }
  next n :                                { Repeat the loop. }
d = 300 * m : wait d :                    { Wait for a moment. }
goto sa-E>!

<ba-1>:<asr><                            { Define the "Apple Graphics" macro. }
y = 6 : for x = 20 to 58 step 2: { Print the top line, left to right. }
  .writestr x,y,$9 : wait d : next x :
x = 58 : for y = 6 to 16 step 1 : { Print the right column, top to bottom. }
  .writestr x,y,$9 : wait d : next y :
y = 16 : for x = 58 to 20 step -2 : { Print the bottom line, right to left. }
  .writestr x,y,$9 : wait d : next x :
x = 20 : for y = 16 to 6 step -1 : { Print the left column, bottom to top. }
  .writestr x,y,$9 : wait d : next y>!

<ba-2>:<asr><                            { Define the "Name Dropper" macro. }
k = n + 51 :                             { Define the name variable. }
$1 = $(k) + chr$ 1 :                     { Define the name string. }
                                           { chr$ 1 = Ctrl-A clears to end of line. }
s = a(c) : t = b(c) :                   { Define location to print name (one of four). }
.writestr s,t,$1 :                       { Print the name. }
c = c + 1 : if c > 4 c = 1>!             { Cycle to the next location. }

E:<all><                                { Define the "Curtain Dropper" macro. }
.cls 2 :                                { Clear the working area. }
.writestr 35,12,"APPLEWORKS" :          { Print the strings. }
.writestr 36,14,"FOREVER!" :
d = 300 * m : wait d :                  { Wait a bit. }
d = 60 * m :                            { Define the wait time. }
for y = 2 to 21 step 1 :                { Start the curtain dropper loop. }
  .writestr 0,y,$30 :                   { Print one line of the curtain. }
  wait d : next y :                     { Repeat the loop. }
d = 300 * m : wait d :                  { Wait a bit. }
oa-Q : esc>!                            { Redraw the Main Menu. }

<ba-L>:<all : launch "seg.um">! { Launch your default macros. }

```

But I intend to keep running AppleWorks on both an Apple II and a Macintosh, until someone invents something as good for the latter machine. And I'll probably keep inventing macros.

I welcome correspondence with my fellow **NAUG** members about macros or any other aspect of AppleWorks. My e-mail address is keithj@unr.edu, and snail mail should go to 1847 Fieldcrest Drive, Sparks, Nevada 89434.

*[Ed: A working copy of these macros appears on this month's issue of **NAUG on Disk**, which costs \$10 from **NAUG**. The macros require AppleWorks 3.0 or later and Ultra 4.0 or later.]*

### Connect with the NAUG Bulletin Board

Call the Electronic Forum, **NAUG's** popular AppleWorks bulletin board, for help with AppleWorks or to download templates, fonts, or utility programs. A free service of **NAUG**. Call (615) 359-8238 at speeds up to 14.4K bps.



July

August

September

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- A2-Central stops printed newsletter.

- NAUG membership: 7,000.

- Quality ships AppleWorks 4.0.  
- NAUG starts AppleWorks 4 Primer series.  
- Hard drive prices drop (20 megs - \$229).

## Corrections

Please make the following changes to your copy of the *AppleWorks Forum*:

November, page 10: *Figure 1* contains the wrong position values. Here are the corrected entries starting with line 3 of that figure.

position length address in memory used for  
<unchanged from posn. 0000 to 00DC>

\*

010E	032	pointer 0AAD	location of dictionaries <sup>8</sup>
0140	067	pointer 0EFE	TimeOut/Inits status & path <sup>9</sup>
01A7	001	0AB5 SBDelay	screen blanker delay
01A8	001	0AB6 ASDelay	auto-save delay
01A9	001	0AB7 NoCentury	bit 80 don't return century
01AA	001	0FFD	(definition unchanged)
01AB	001	0FFE	(definition unchanged)
01AC	001	0FFF	(definition unchanged)
01AD	001	BA96	printer buffer status
01AE	001	0A64 AddFilesOrder	(definition unchanged)
01AF	001	0A65 ListFilesOrder	(definition unchanged)
01B0	003	0A66 MTScrChars	(definition unchanged)
01B3	003	0A69 StdScrChars	(definition unchanged)
01B6	001	0A6C LMVal	left margin standard value <sup>6</sup>
01B7	001	0A6D RMVal	right margin standard value <sup>6</sup>
01B8	001	0A6E TMVal	top margin standard value <sup>6</sup>
01B9	001	0A6F BMVal	bottom margin standard value <sup>6</sup>
01BA	001	0A70 Currency	currency symbol
01BB	001	0A71 Thousands	thousands separator
01BC	001	0A72 DecimalSep	decimal separator
01BD	001	0A73 OTMenus	one-touch menus (01=yes)

\*

01BE	050	pointer 0A74	wp default ruler <sup>10</sup>
020E	100	pointer 0EFC	pathnames <sup>11</sup>

\*

<unchanged from posn. 030E to 0C3E>

\*

0C9E	060	pointer #5	printer 5 special code names
------	-----	------------	------------------------------

\*

pointer #1-5 table stored at pointer 0EFA

\*

## NAUG Discount on AppleWorks Gazette

NAUG members Chris Serreau and Howard Katz recently announced plans to produce The AppleWorks Gazette, a new disk-based, bimonthly publication about AppleWorks and the Apple II. Each issue will contain articles and AppleWorks-related software. Columns will include news about the latest AppleWorks events, reviews of Apple II hardware, technical articles about the internal structure of AppleWorks, tips and techniques for TAPL programmers, and suggested uses for AppleWorks. Software will include the best public-domain, freeware, and shareware AppleWorks-related programs. The first issue of the AppleWorks Gazette will ship on January 20, 1996.

A one-year subscription (six 3.5-inch disks) costs \$35, including airmail postage anywhere in the world. Until January 10, 1996, NAUG members can subscribe to the Gazette for US\$30. Be sure to include your NAUG membership number when you subscribe.

North American subscribers should send a \$30 check or money order made payable to Howard Katz. European subscribers should send the equivalent of US\$30 in check or money order made payable to Christian Serreau. Charge cards, purchase orders, or COD orders are not accepted.

[Howard Katz, 1104 Lorlyn Circle #2D, Batavia, Illinois 60510; Internet: h.katz@genie.com]

[Christian Serreau, 12, rue de la Censerie, 49100 Angers, France; Internet: 100316.14@compuserve.com]

90,000th call to the NAUG BBS.

NAUG recommends \$149 Roadrunner hard drive.

Quality ships AppleWork

# Final Closeout from NAUG

NAUG recently cleaned house and is selling some of its books, hardware, and software at the lowest prices ever.

Figure 1 lists the books available from our collection. All books are in excellent condition and cost \$5 each except for the three NAUG books (marked with an asterisk), which cost \$2.50 each.

Figure 2 lists the available hardware. All items are used but tested and work with our systems. Please check the items on your computer when they

arrive; if they do not work, we will gladly refund your money, but please return the items before we close at the end of the year.

Figure 3 describes the available software. We have

## Figure 1: Books – \$5 Each

Apple II BASIC Programming	DOS 3.3 Programmer's Manual - Apple
Apple II Hard Drive Primer*	DOS 3.3 User's Manual - Apple
Apple II Reference Manual - Apple	Dvorak's Guide to PC Telecommunications
Apple II Users Guide	Executive VisiCalc for the Apple Computer
Apple IIc Owners Manual - Apple	Exploring Apple GS/OS and ProDOS 8
Apple Personal Computer for Beginners	HelpWorks - Tutorial and disks
AppleSoft Tutorial - Apple	How to Get the Most Out of CompuServe
AppleWorks 2.0 - Applied Skills Series	Introducing ProDOS
AppleWorks for Educators w/ disk	Introduction to AppleWorks GS w/ disk-MECC
AppleWorks for Teachers	Introduction to BASIC Programming
AppleWorks Handbook: Vol. 2*	Introduction to Computing Using AppleWorks
AppleWorks in Your Classroom w/disk	Power of AppleWorks
AppleWorks Tips and Traps	Power of Multiplan
AppleWorks Tutorial - Apple	ProDOS Quick and Simple
AppleWorks: Boosting Your Business	ProDOS Technical Reference - Apple
AW Resource Guide for Teachers and Parents	ProDOS Users Manual - Apple
BASIC Programming Ref. Manual - Apple	Spreadsheet Principles & Apps Using VisiCalc
Beginning w/ ProDOS 8 and 16	UltraMacros Primer*
Beneath Apple DOS	Using AppleWorks
CompuServe - Advanced for IBM PC	Using AppleWorks GS
Developing Computer Skills Using AW	VisiCalc for the Apple II Plus
Doing Business w/ Multiplan	

## Figure 2: Hardware

Description	Price
3.5-inch disk holders. We have three; price is for each.	\$5
4-position parallel printer switch. Standard Centronics connections.	15
5.25-inch disk holders. Sliding drawers with handles. Interlocking design. We have seven; price is for each. \$50 for all seven. High quality units.	10
5.25-inch disk storage trays with flip cover. Price is for all three.	10
Apple Graphitti parallel printer card - no documentation.	5
Apple II DuoDock Controller	10
Apple II Super Serial Card	15
Apple IIc modem cable.	5
Apple IIc mouse.	10
Apple IIc to TV adapter.	10
Apple IIc video cable.	5
Apple IIc Card for Mac LC	35
Apple IIc 64K 80-column card.	10
Apple IIc cooling fan.	10
Apple IIc RGB Interface Card - no documentation.	10
Apple II disk interface card.	10
Applied Engineering TransWarp Card - no documentation	25
Grappier Plus Parallel Printer Interface Card w/ cable - no documentation.	10
Inmac Travel Case for 5.25-inch disks. High quality.	5
Joystick - No interface card.	5
Mail in/out Trays. Heavy duty plastic. Price is for complete set of 10.	20
Quickie scanner, interface card, and software.	25
Radio Shack portable hand copier. 3.5-inch width. Perfect for address labels and in-the-library copies. We have two; price is for each.	20
Thermal copier paper for Radio Shack copiers. 210 rolls.	25
RamWorks 3 board w/o memory.	10
RamWorks 3 piggyback board w/o memory.	10
Sider 10meg hard drive with interface card. Originally \$700.	25
Z-80/CPM Card - no software or documentation	10

NAUG starts its ninth year!  
 NAUG distributes AppleWorks 4 file formats.

Quality ships AppleWorks 5.0.

New format for **AppleWorks Forum** - 24 pages.

July August September October November December 1994

NAUG membership: 4,000.

Quality discontinues plans to develop AppleWorks GS 2.0.

America Online drops access by Apple II computers.

some unique packages (like the Spanish, French, and German editions of AppleWorks that Robert Lissner sent us). Unless otherwise noted, the software is new and still in the shrink-wrapped package. Once again, all items are returnable until the end of the year.

Supplies of all items are limited. Telephone

orders only. (That lets us tell you if we have the item(s) you want in stock. No fax orders, please.) All payments by credit card only. Add \$5 *per order* to cover shipping and handling in the USA; international shipping additional.

[NAUG: (313) 454-1115.]

### Figure 3: Software

Description	Cost	Description	Cost
A+ Card Shop (for use with AppleWorks GS).	\$5	Microsoft Multiplan - Used.	\$10
A+ Financial Planner.	5	NAUG on Disk - Back issues since 1990. Price is per year.	30
AfterWork Screen Saver for AW4.	5	Pinpoint Command.Com (MS-DOS command language for Apple II).	5
Apple Logo Language - Used.	10	Pinpoint Graphic Edge.	5
AppleWorks 1.1 - New, but no shrinkwrap.	20	Pinpoint ProFiler.	5
AppleWorks 4.0	25	Pinpoint RAM Enhancement Kit - Requires Pinpoint Desktop software.	5
AppleWorks GS v.1.1	25	Pinpoint RunRun Desktop Manager.	5
AppleWorks Network Version. Originally \$1616. New, but no shrinkwrap.	50	Pinpoint: Point-to-Point 2.0 - Used.	5
AppleWorks - exact version unknown, pre-3.0.	20	ProTerm Telecommunications Software.	15
AppleWorks - French; version unknown. New but opened.†	25	Publish-It! 4 - New but opened.	25
AppleWorks - German; version unknown.†	25	RamUp - New but opened.	5
AppleWorks - Spanish; version unknown.†	25	SchoolWorks: Athletic Director Templates.	5
AW 3.0 Companion - Beagle.	5	SchoolWorks: Office Templates.	5
Bank Street Filer - Used.	10	SchoolWorks: Teacher Templates.	5
Bank Street Writer - Used.	10	Sensible Grammar - Used.	10
Beagle Bros GS Font Editor.	5	Sensible Speller - Used.	10
Complete GEO Environment. Includes GeoWorks, GeoPaint, DAs, and more.	20	Springboard Publisher. Complete publishing system for IIe, IIc, IIGS.	20
Brings IIGS-like desktop and graphic programs to the IIe and IIc. Mouse required.		Statistics w/ Finesse - No documentation. Used.	10
Copy II+ 9.0 - New but opened.	15	StoryWorks	5
DB Master - Version 5	15	SuperCalc 3a - Used.	10
Delta Drawing.	10	The Power of Nation States.	10
FastData Pro. Fast index program for the Apple II. Opened but not used.	10	TimeOut ShrinkIt Plus - New but opened.	5
Harmonie 2.0 - Printer drivers for IIGS. New but opened.	10	UltraCat disk cataloging program - New but opened.	5
inCider IIGS Clip-Art Gallery - Vol I and II. Price is for both.	10	VisiCalc - Advanced - Used.	10
inCider Productivity Pack I and II for AppleWorks. Price is for both.	5	Zipfiles Cookbook Templates.	5
inCider's Clip-Art Collection II (for PrintShop). Three disks.	10	Zipfiles Desktop Accessories (scientific calculator, calendar maker, etc.)	5
inCider's IIGS Clip-Art Collection I and II (for PrintShop GS). 4 disks total.	10	Zipfiles Medical Expert Templates for AW.	5
inCider Magazines - 53 back issues since 1/89	25		
Manuscript Manager - APA Style. Word processor with automatic APA style footnoting. Imports AW files. Used.	10	† These were Robert Lissner's personal copies sent to him by Apple and donated by him to NAUG.	

January

February

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May

June

NAUG releases additional printer drivers for AW 5.  
NAUG recommends AW4 First Kit.

NAUG starts Cindy Field's SuperFonts series.  
NAUG starts Will Nelken's UltraMacros series.

NAUG membership: 3,000.  
Brandt calls Superior Works 5.0.  
100,000th call to the NAUG hotline.

# Basic AppleWorks Operations: Getting Started and Quitting

by Christian Serreau

*The more you know about AppleWorks, the easier it is to diagnose problems and find creative ways to manage the program. Here is an updated look at two of the most important sets of operations that occur when you launch AppleWorks.*

Apple Computer's documentation for the first version of ProDOS described how to start and quit into ProDOS's built-in program selector from a system program. The reason for these rules was simple: System programs were unknown in the DOS 3.3 world, where BASIC commands built into the operating system used a fair amount of memory.

Although ProDOS was an operating system kernel with no built-in command line, it provided more elementary sub-programs and returned more information at well-defined memory locations than DOS 3.3. How the system programs used available memory was left up to the programmers, but ProDOS expected system programs to perform a few tasks when starting and quitting. In that way, programs launched from ProDOS's selector found a standard memory configuration, and would not have to perform lengthy tests before installing themselves in memory. From the very start, Apple-

Works complied with most of these rules. (Of course, AppleWorks is a large and complex program, so the starting and quitting operations are not limited to these programming rules.)

This article describes what happens when you launch AppleWorks 5.1 and how the program gets back to the ProDOS program selector when you quit AppleWorks. (Readers interested in these operations in early versions of AppleWorks should read Randy Brandt's article entitled "The Boot Up Process" in the June 1990 issue of the *AppleWorks Forum*.)

## Starting AppleWorks

Most of the code used when you launch AppleWorks 5.1 lies in the APLWORKS.SYSTEM file. Other files are used only when needed, and are generally limited to specific tasks. *Figure 1* describes the order in which events occur when you launch AppleWorks.

The APLWORKS.SYSTEM file contains three functional units:

1. The main code, which is a suite of general, elementary sub-programs used by most AppleWorks



# July August September October November December 1995

h #1 AppleWorks user.  
G BBS.

NAUG starts its tenth year!  
Quality announces plans to stop II Alive.

NAUG announces plans to close.  
Marin MacroWorks ships TouchTwo.

operations such as keyboard and display routines and program segment loading. (This code is generally called the “Host” and was originally loaded between memory addresses \$1000 and \$1FFF. Starting with AppleWorks 3.0, the code became too large for this memory area and was split into two parts, Host and Host2.)

2. “Relocator”, which copies code into its final execution location and does a number of house-keeping tasks.
3. “Installer”, which the program uses to match your hardware and user-defined requirements.

Let’s examine the Relocator and Installer, which play important roles in the startup and quitting process.

## Relocating the Program

The Relocator serves three functions:

1. It checks if your machine meets AppleWorks’ requirements for an 80-column card and 64K of auxiliary memory.
2. It moves AppleWorks’ main code to its final address.
3. It modifies some addresses in memory. Specifically:
  - A. It updates the memory bitmap so it reflects AppleWorks’ standard memory configuration.
  - B. It sets the “soft” restart bytes so that Control-Reset returns to AppleWorks’ Main Menu.
  - C. It updates the stack pointer and status register.

Once this is done, the program jumps to the “Installer”.

(It’s interesting to note that Apple’s rules for a system program also include copying the program’s version number to \$BFFD. AppleWorks never met such a requirement; version information is available at memory address \$1003 (b\$0003 in APLWORKS.SYSTEM).)

## Program Installer

The Installer serves three functions:

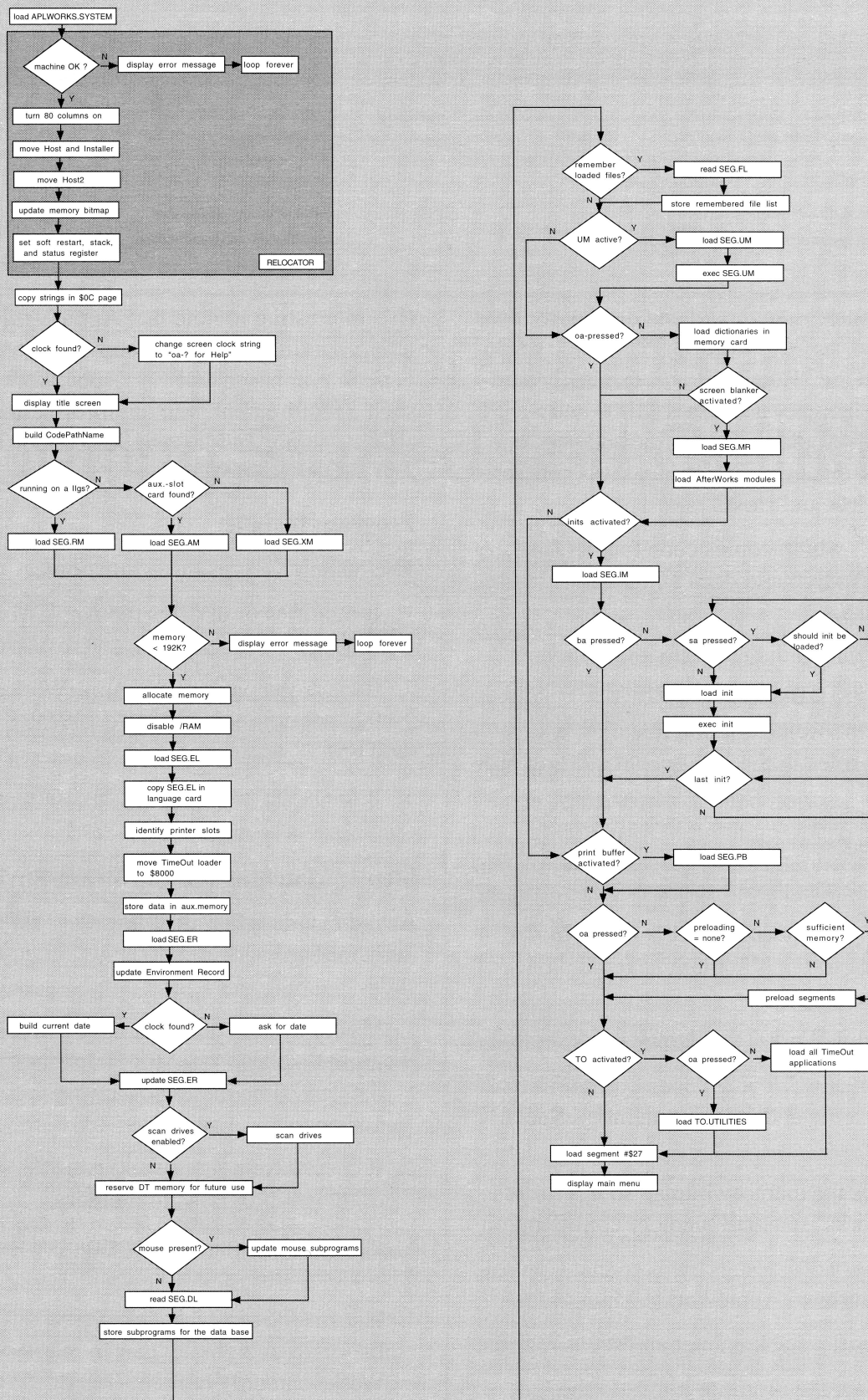
1. It modifies or updates the AppleWorks code so it works within your hardware environment.
2. It loads the parts of the AppleWorks program that are not included in APLWORKS.SYSTEM.
3. It loads the user-defined environment record and stores it in memory.

## Step 1: Matching the Hardware Environment

As indicated earlier, the “Installer” starts by checking your hardware and updating memory. Specifically:

1. If your system does not have a clock, the program displays “oa-? for Help” instead of the date and time in the bottom-right corner of the screen.
2. It checks for a mouse and adds the mouse handling sub-programs to memory.
3. It scans the slots and constructs a list of the slots that may control a printer.
4. It scans the slots for disk drives and constructs a list of up to eight devices in memory. (AppleWorks can only remember eight drives; ProDOS can remember as many as 14.)

**Figure 1: AppleWorks' Getting Started Flowchart**



5. It looks for a memory card (peripheral-slot, auxiliary-slot, or IIGS-type) and loads the corresponding memory manager. (AppleWorks 5.x requires at least 192K of RAM; it does not support a 128K configuration.)

### Step 2: Loading Program Files

Then the Installer loads two files: SEG.EL and SEG.DL. SEG.EL contains the elementary mathematics sub-programs used by AppleWorks.

SEG.DL contains sub-programs for the data base single record and multiple record layout displays. (These sub-programs were stored in SEG.DB in earlier versions of AppleWorks.)

The Installer loads other files as defined by the user. These include:

- A. SEG.UM, which installs UltraMacros' sub-programs in main and desktop memory. (For a description of main, desktop, and auxiliary memory, see Randy Brandt's article about memory management in the August 1990 issue of the *AppleWorks Forum*. Some parts of that description do not apply to AppleWorks 5.1 running on Macintosh computers.)
- B. SEG.MR, which installs screen blanker sub-programs and stores the AfterWork modules in desktop memory.
- C. SEG.IM, which executes the init files and dot command files for UltraMacros.
- D. SEG.PB, which installs sub-programs for the printer buffer.
- E. The TimeOut loader, which builds the root TimeOut application list and preloads memory-based applications.
- F. AppleWorks' 46 program segments, kept in the SEG.AW, SEG.DB, SEG.DR, SEG.SN, SEG.SS, and SEG.WP files.

The Installer can also copy your dictionary files onto a RAM disk for faster operation.

### Step 3: Loading the Environment Record

AppleWorks stores your environment record in two files: SEG.ER, and SEG.FL. SEG.ER contains most of the user-defined items. The Installer copies a part

of SEG.ER into main memory, but it stores the largest chunks in desktop memory. AppleWorks calls these routines only when necessary. (I described SEG.ER's format in last month's issue of the *AppleWorks Forum*.) SEG.FL keeps the list of "remembered" files; it stores the list in desktop memory. (For a description of SEG.FL, see the sidebar entitled "How AppleWorks Stores Remembered Files".)

### Quitting AppleWorks

Quitting a program should be simple; just restore the memory locations required by ProDOS and return to the launcher. But much more goes on when you quit AppleWorks.

AppleWorks' Quit sub-program performs four tasks:

1. It asks if you really want to quit AppleWorks (unless ExpertMode ("Ignore Yes/No") is enabled).
2. It checks the print buffer status to make certain that no files are being printed.
3. It removes all data files from the desktop, asking if newly created and modified files should be saved. Then it saves your environment data to disk.
4. It rebuilds ProDOS's memory configuration, so the next system program does not have to check the state of memory before starting.

The code used in these operations is in segments \$27, \$28, and \$29. The flowchart in *Figure 2* describes the general organization of the Quit sub-program.

### Step 1: Saving and Removing Data

The Quit routine starts by checking the status of each data file on the desktop. If the file is new or was modified since you loaded it from disk, AppleWorks asks if it should save the file to disk before removing it from the desktop. AppleWorks skips this step if you press the Open-Apple key when you select "Quit" from the Main Menu.

AppleWorks then saves the list of recently loaded files ("remembered" files) in SEG.FL in the current AppleWorks directory. It saves the rest of the environment record in SEG.ER every time you modify an entry, so it does not need to save these data when quitting.



## Step 2: Restoring Standard ProDOS Environment

Apart from resetting memory, AppleWorks performs two configuration-specific tasks:

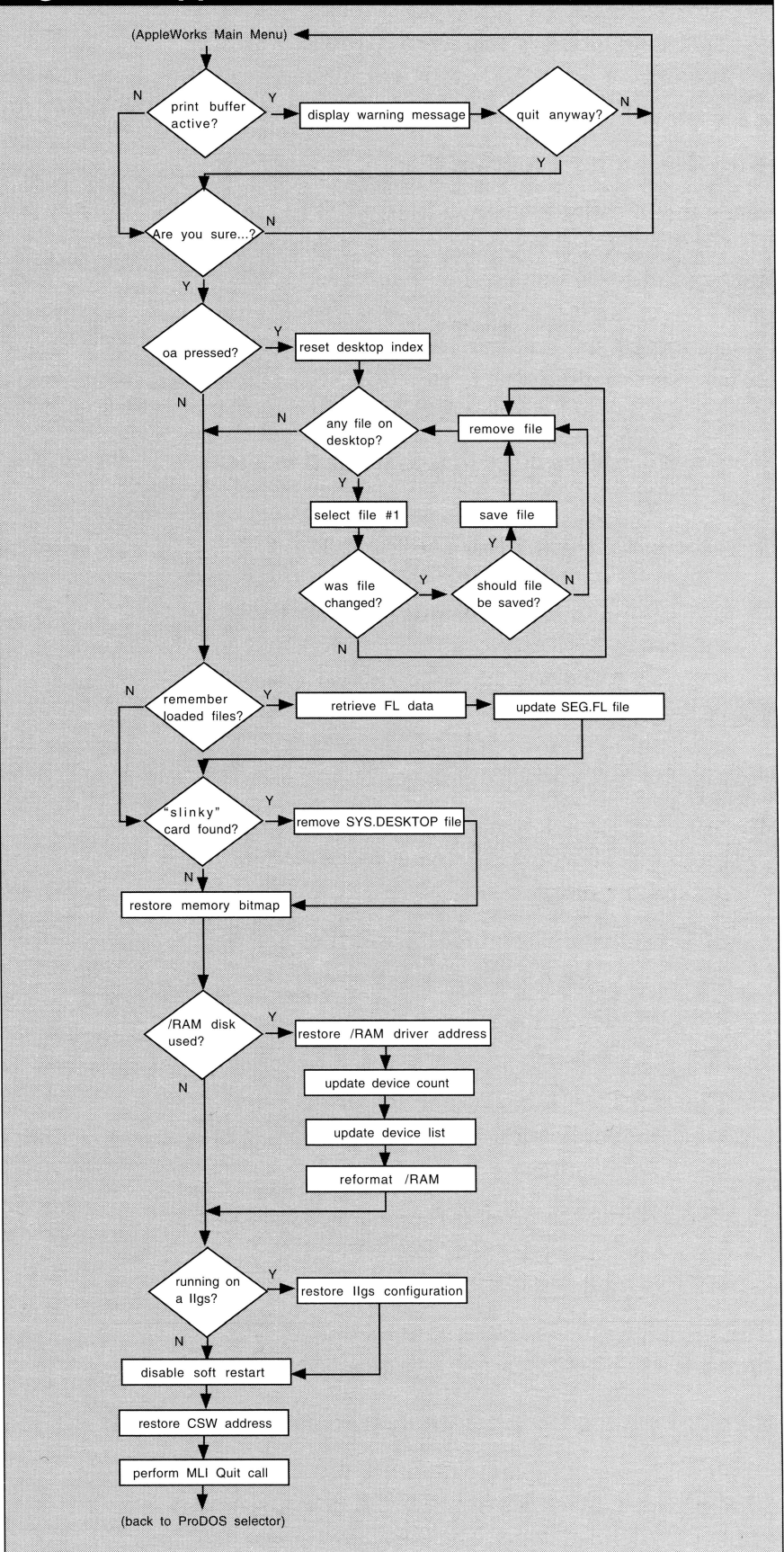
1. If you have a peripheral slot ("slinky") memory card, it destroys the SYS.DESKTOP file AppleWorks created when you launched the program.
2. On a IIGS, AppleWorks issues calls to the Toolbox to shut down the tools it used.

Then come three "standard" quitting operations:

3. The quit routine restores the memory bitmap by marking the memory pages used by ProDOS, and those that are available to the next system program.
4. It restores the /RAM (slot 3 drive 2) driver address in the driver address list.
5. It increments the available device count, adds the /RAM (slot 3 drive 2) identification byte to the list of online devices, and re-formats the /RAM disk.

(It's interesting to note that Apple was unclear about how to add a device identification byte to the device list. (Specifically, whether it should be restored in its original place or at the end of the list.) AppleWorks uses the second method, so it puts the /RAM (slot 3 drive 2) identification byte at the end of the device list even though this identification byte is the first in the list when you boot ProDOS. While this makes no difference for well-written software, some old ProDOS system programs (which use /RAM as a memory extension) check the first byte in the device identification

**Figure 2: AppleWorks' Quit Flowchart**





## SEG.FL: How AppleWorks Stores “Remembered” Files

AppleWorks 5.x stores a list of up to nine of your most recently used files and the pathname to each file. To display that list, press the Open-Apple Key while selecting “Add files to the desktop” in the Main Menu, or press <oa-P> in the Add Files Menu. AppleWorks will display the nine most recently loaded files, from which you can select and load one (provided that the volume the file was saved on is online).

While AppleWorks is active, it stores this list in desktop memory (pointer \$0CAB). However, the quit routine saves this data in a 682-byte binary file named SEG.FL stored in the AppleWorks program directory.

Figure A shows the file structure of SEG.FL.

Although there is room for ten file entries in SEG.FL, AppleWorks uses only nine entries and stores only d614 bytes in desktop memory. Trying to remove the unused bytes from the end of the file is fruitless: the file would still use three blocks of disk space.

Users can easily reset the file list before starting AppleWorks by launching BASIC.SYSTEM and typing:

```
poke 768,0
bsave SEG.FL,a$300,11,b$1
```

That stores zero as the number of active entries in the list. AppleWorks will then rebuild the list with the newly loaded files.

**Figure A: SEG.FL File Structure**

position	length	used for
0000	d1	always 60
0001	d1	number of entries in file (0-9)
* file #1	description	
0002	d16	file #1 name - P.string
0012	d1	file #1 type (aw types 01=db 02=wp 03=ss)
0013	d1	always 1 - unused
0014	d50	file #1 path - P.string
* file #2	description	
0046	d68	same structure as file #1
* file #3	description	
008A	d68	same structure as file #1
* file #4	description	
00CE	d68	same structure as file #1
* file #5	description	
0112	d68	same structure as file #1
* file #6	description	
0156	d68	same structure as file #1
* file #7	description	
019A	d68	same structure as file #1
* file #8	description	
01DE	d68	same structure as file #1
* file #9	description	
0222	d68	same structure as file #1
*		
0254	d68	unused
0286		eof

bytes list. These programs report an error when they don't find slot 3 drive 2 at this address.)

4. The quit routine invalidates the reset vector, restores the original CSW (character output sub-program address) value in appropriate page zero locations, and issues a standard MLI Quit call, which leads back to the ProDOS selector.

(Randy Brandt's "Program Selector" TimeOut application automatically launches the system program you specified and skips ProDOS's program selector step. For example, the Program Selector automatically returns to AppleWorks when quitting, if you enabled this option for the "selector".)

### Conclusion

Launching AppleWorks 5.1 from a fast SCSI or IDE hard drive or from a RAM disk just takes a

few seconds, and users may think that it requires only a few simple operations. But as you can see, the "Getting Started" sequence is one of the most complex in AppleWorks, in part because it was modified each time a new version of the program was released. The "Quit" sequence has to restore the standard memory configuration, so the next selected system program works reliably.

I hope this article will intrigue you and encourage you to take a careful look at what happens inside AppleWorks.

*[Christian Serreau is a professor of Political Science in Paris, London, and Moscow. He's been using an Apple II since late 1977. You can reach Prof. Serreau at 100316.14@compuserve.com.]*



### Goodbye, from your friends at NAUG

L to R (standing): Warren Williams, Cathleen Merritt, Nancy Hytinen, Nanette Luoma, Pam Fair, Sandra Crenshaw, Jelena Harrington. (Kneeling) Sherry Kuhr, Nancy Perry. Missing: Bob Kleimann

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